

SECRET

Attachment #12

Misc - 56

21 Nov 64

25X1

SUBJECT: Contract [] Progress Review Meeting, 19 Nov 64 -
Briefing Boards

VISITORS:

CONTRACTOR

25X1

1. Copies of revised specifications for Briefing Boards were presented by the customer.

2. [] indicated that the board material we have been using, although in accordance with the specifications, is lighter weight than he would like. A sample of the material used was given to [] The customer will specifically request a different material if they wish us to change. ✓ 25X1

3. Briefing board titling instruction:

a. Each briefing board shall contain the PAR title at the upper left. The contractor will forward a suggested list of shortened PAR titles for approval.

b. Except for the case where there may be only one board and the PAR title is descriptive, each briefing board will also contain a sub-title identifying or describing the content of that board.

c. PAR numbers shall not appear on the briefing boards, except that, for purposes of identification, the PAR number may be pencilled lightly on the rear of the board with notations showing the particular number of a series and the total number in that series. Example:

(1) PAR 214: 1 of 5

(2) PAR 214: 2 of 5

(3) PAR 222: 1 of 1

4. Sketches of proposed briefing board designs will be forwarded to the responsible customer engineer for comment and approval prior to actual start of final art work. ✓

Declass Review by NGA.

GROUP 1
Excluded from automatic downgrading and declassification
Approved For Release 2004/11/30 : CIA-RDP78B04770A000800010005-9

SECRET

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Attachment #12

Misc - 56
21 Nov 64

5. The following customer comments and constructive criticism were made to be used as guide lines in briefing board design:

a. Maximum distance for viewing a briefing board is 15 to 20 times the board diagonal. All lettering should be readable from this distance.

b. In order to avoid excessive screen illumination (which places emphasis on background rather than content) the use of colored or grey backgrounds should be considered.

c. Crowding of a briefing board should be avoided. Either reduce the content or if this is not possible, use several boards.

d. The use of color is encouraged.

(1) However, the idea that the color is conveying must be clear.

(2) Color differentiation must be possible at viewing distances specified in paragraph 5a.

6. Boards are to be shipped with opaque covering.

7. Specific comments on individual PARs may be found in the attached minutes of the individual PAR discussions.

8. TelePrompter slide long dimension shall always be horizontal during projection.

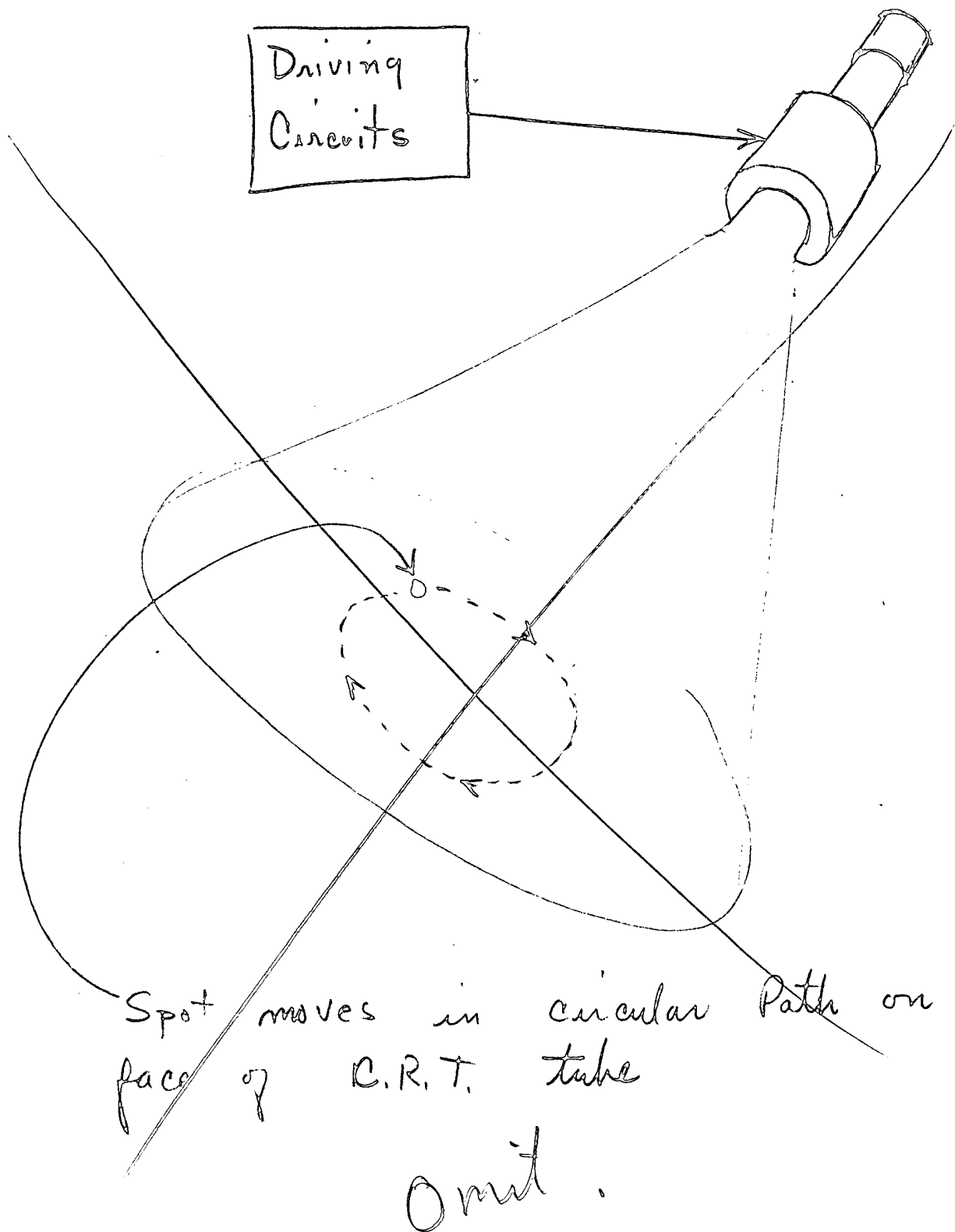
9. Lettering may exceed sizes given in the current specification.

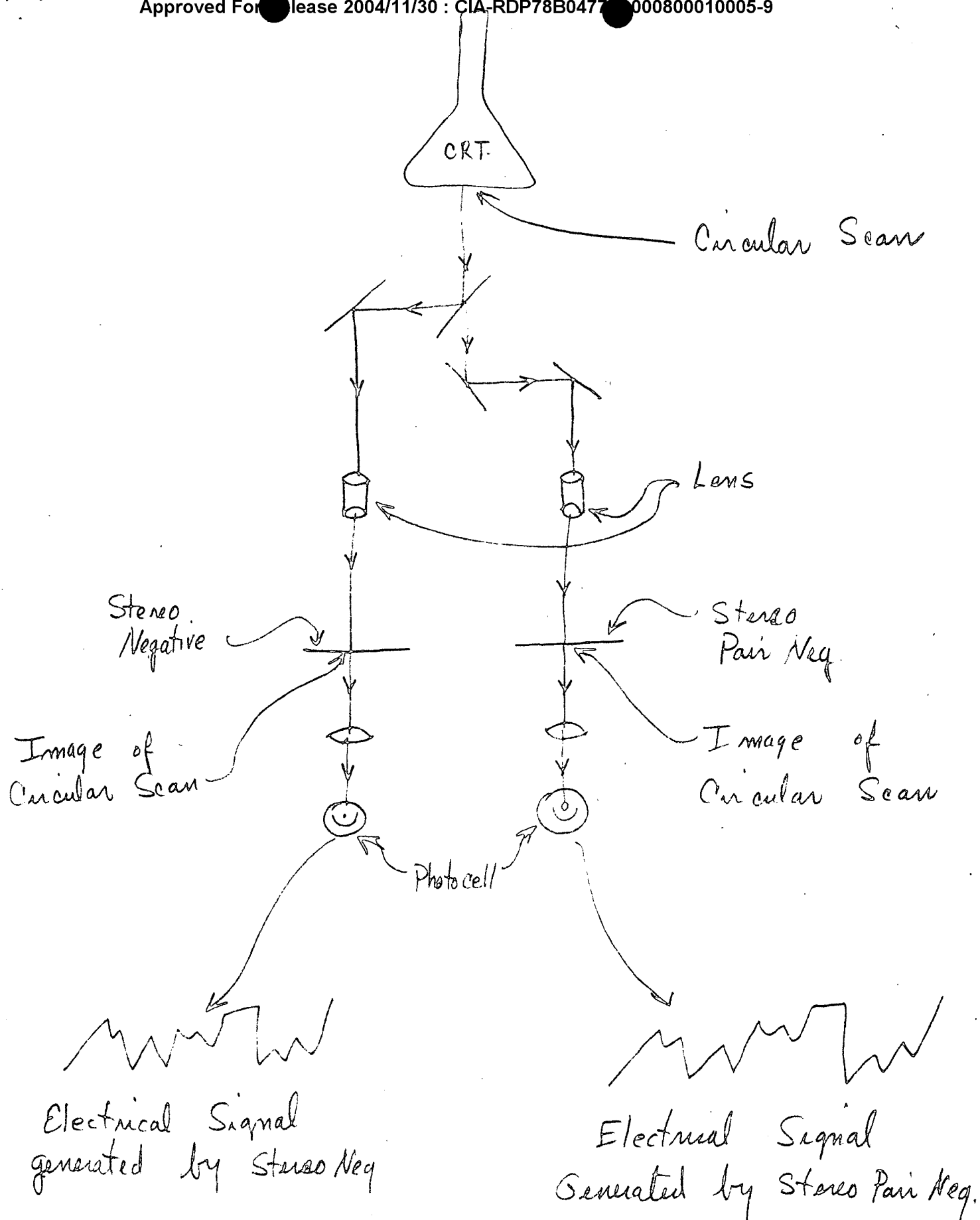
ACTION ITEMS

10. Submit list of PAR names (Paragraph 3a above).

11. Submit sketches of proposed Briefing Boards.

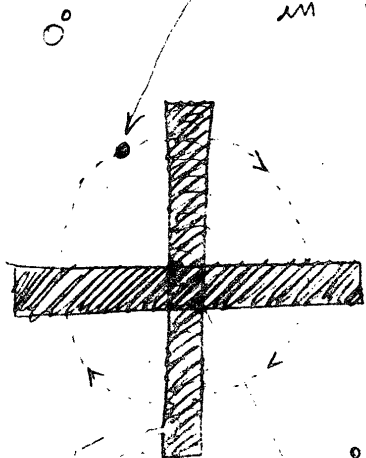
SECRET





Rotation

Spot Source scanning
in circular path.



Stereo Pair
Images

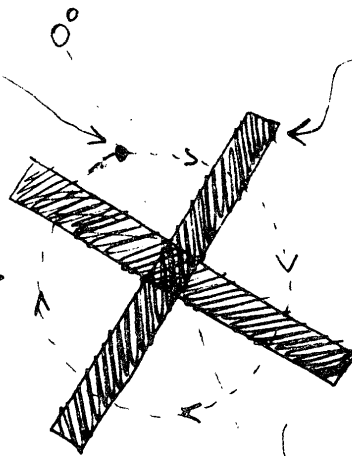
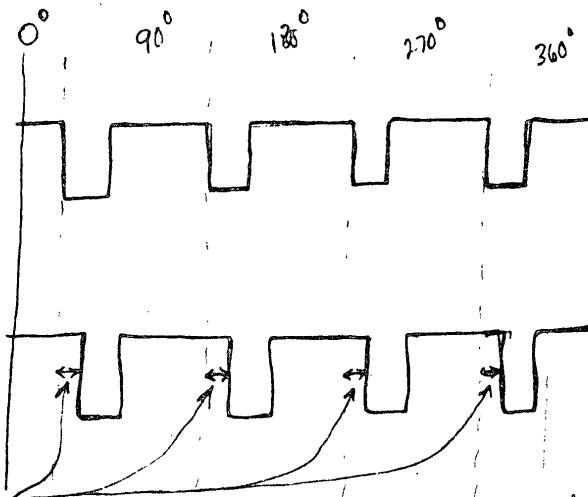


Image out
of Registration
Rotated
Clockwise

Scan Signal obtained
from Reference Image

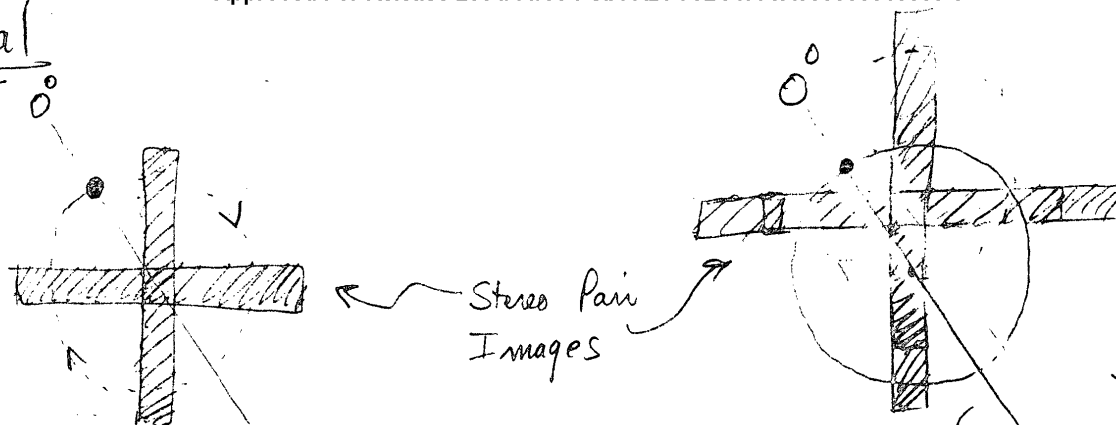


scan signal obtained
from Stereo pair image

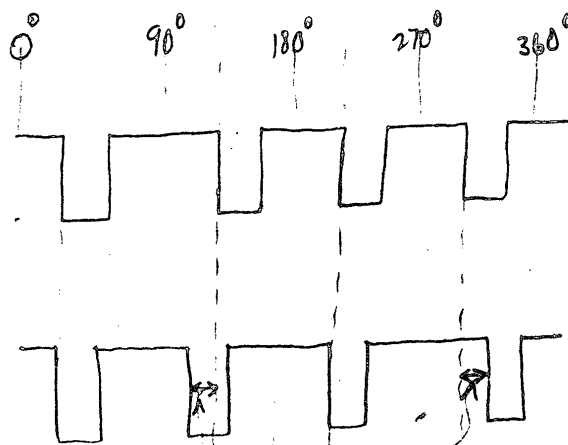
Electronic Circuits Measures Phase Difference

~~These two signals~~ to determine Rotation mis registration

Vertical



Scan Signal obtained from Reference Image



Scan Signal obtained from Stereo pair Neg.

Electronic Circuits Measures Phase difference of ~~these~~ ~~signals~~ in the second and fourth quadrants (90°-180° and 270°-360°) to determine vertical misregistration

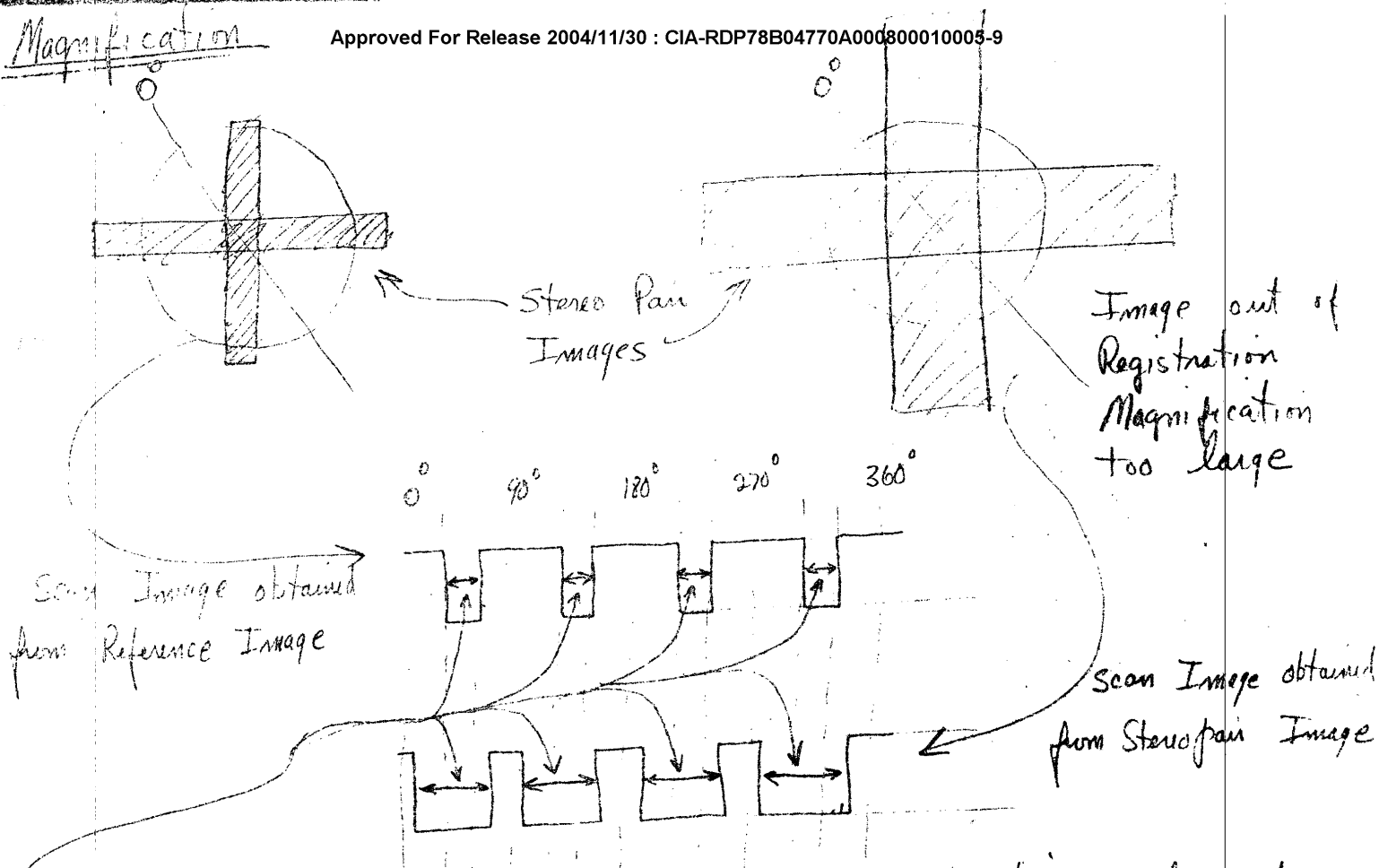
Horizontal

Horizontal displacement is detected in the same manner except that electronic circuits measure phase difference in first and third quadrants.

This should be made a part of the board labeled "Vertical". add the label "Horizontal" and the above statement to the bottom of the board.

Magnification

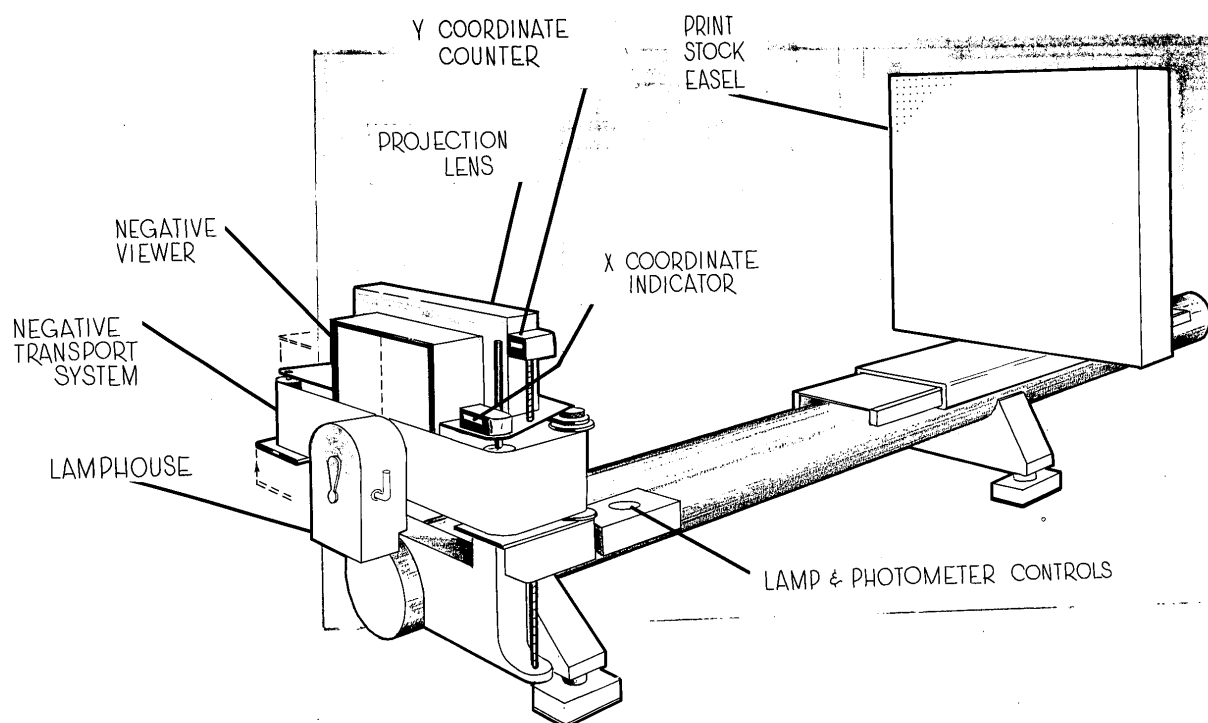
Approved For Release 2004/11/30 : CIA-RDP78B04770A000800010005-9



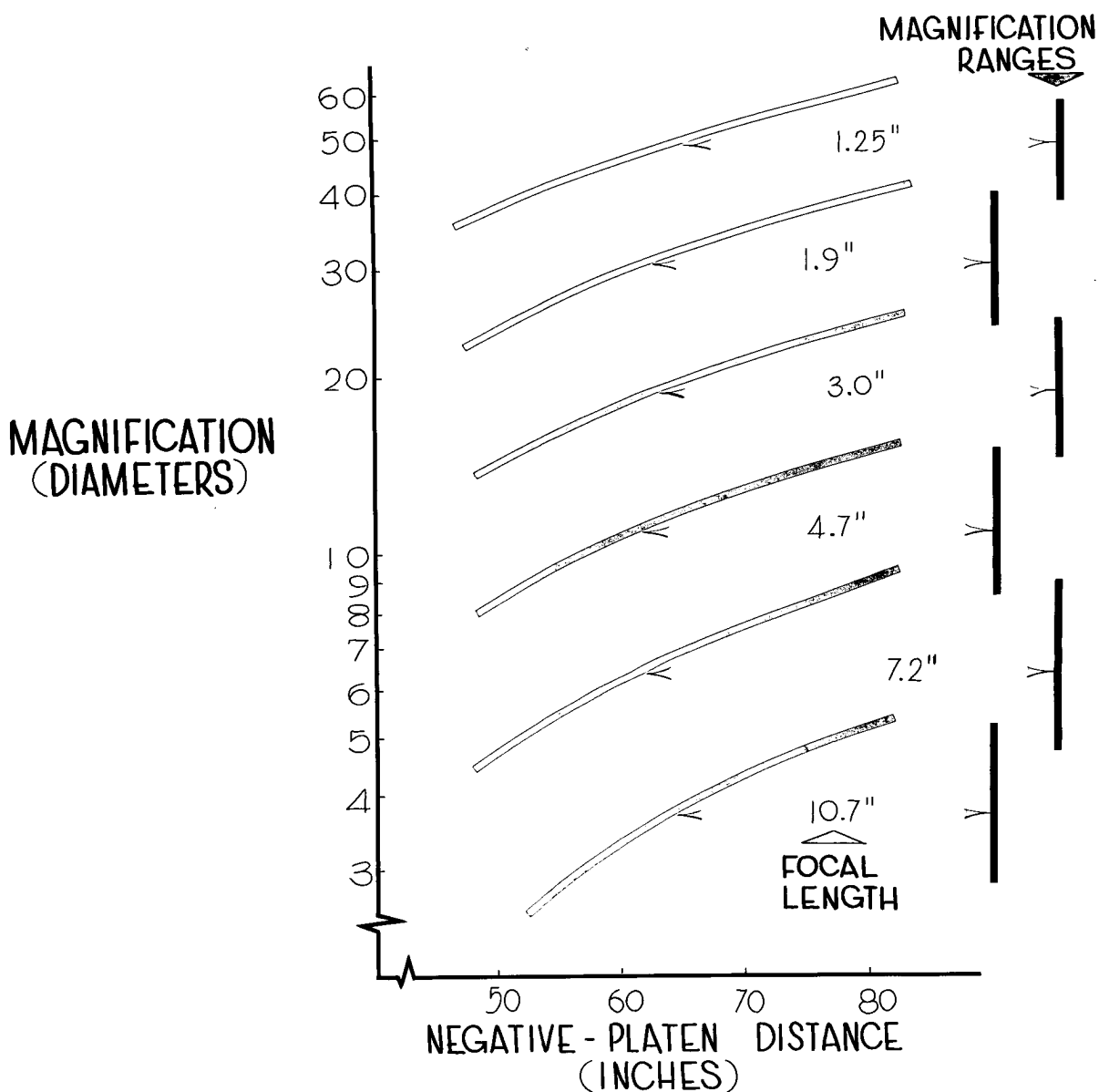
Electronic Circuits Measures difference in duration of the pulses ~~of these two signals~~ to determine magnification error.

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GENERAL ARRANGEMENT ROLL NEGATIVE ENLARGER

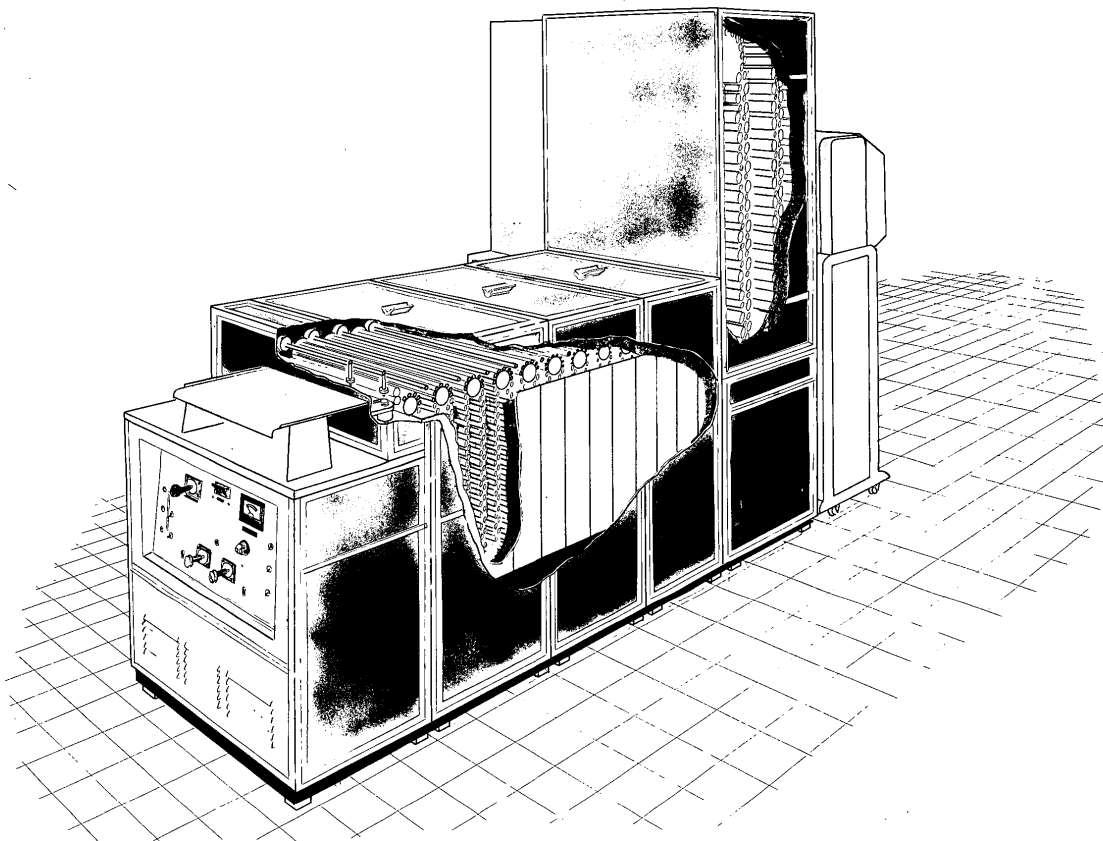


RELATIONSHIP OF MAGNIFICATION, FOCAL LENGTH, *and* NEGATIVE TO PLATEN DISTANCE



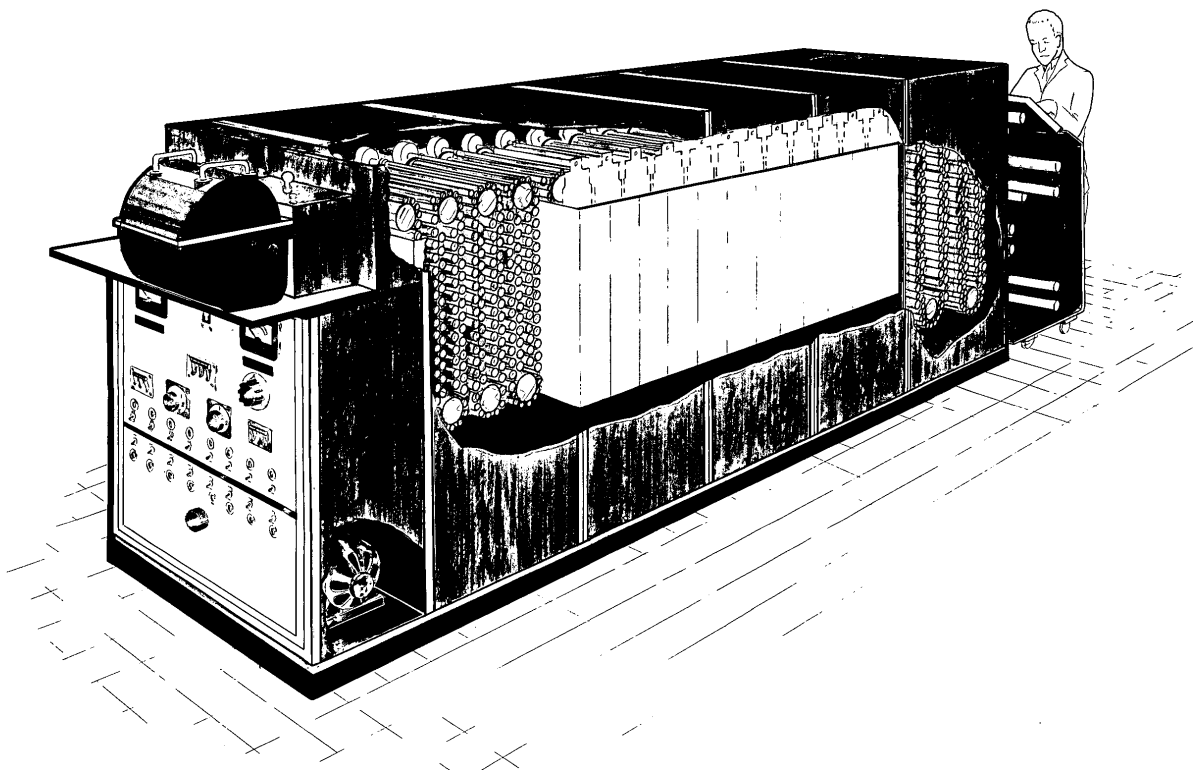
Approved For Release 2004/11/30 : CIA-RDP78B04770A000800010005-9

ROLLER TRANSPORT PROCESSOR (24 INCH)



Approved For Release 2004/11/30 : CIA-RDP78B04770A000800010005-9

ROLLER TRANSPORT REVERSAL PROCESSOR (12 INCH)



MEMORANDUM FOR:

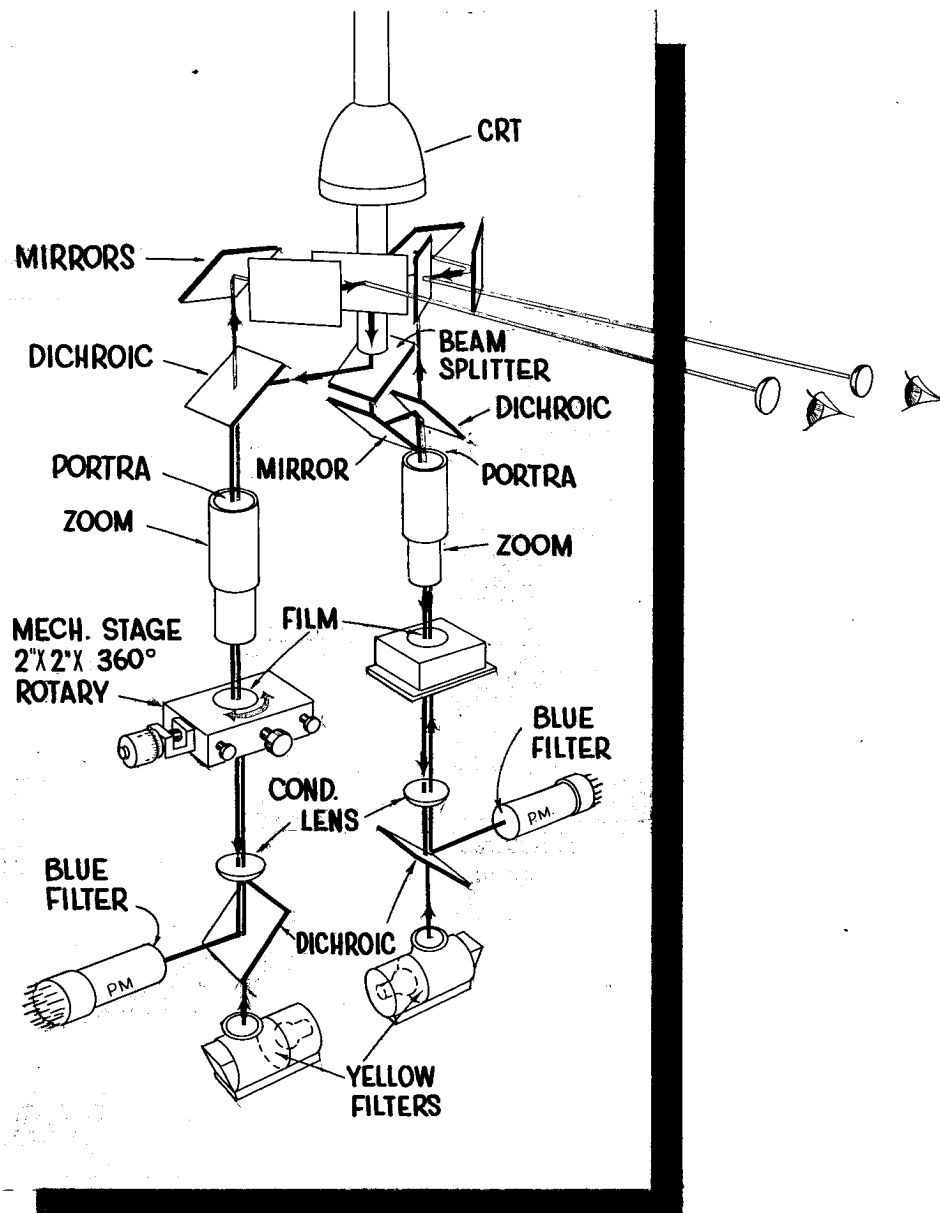
The briefing board is too cluttered up in the area just below the CRT. If it is opened up in ~~this~~ this area like the illustration on page 33 of FY-65 Quarterly Report No. 1, ****, the ray tracing will be much easier to follow.

"26 Oct 64"
(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)

STEREO REGISTRATION BREADBOARD



13 Nov 64

TITLE OF THE PROJECT

SUB-TITLE FOR THE BOARD

Artists concept of the design

Brief statement of capability, e.g.,
70 mm - 95", 500 ft/min, etc.

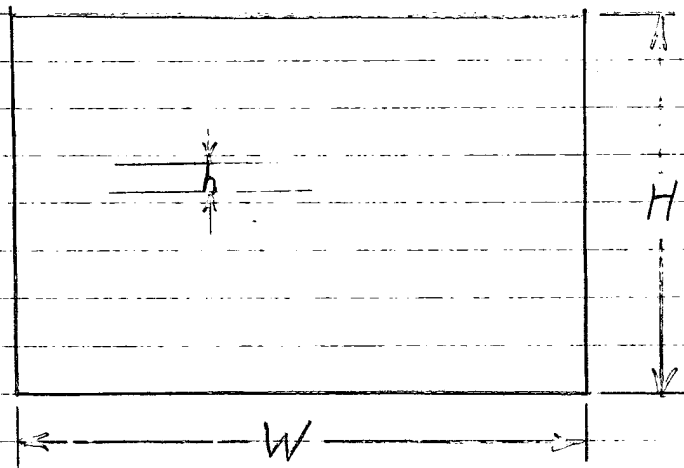
Do not use PAR or contract no.

" " classify

Consider use of acetate overlay when of no line

Use a few annotations to identify processor
tanks, enlarger light sources, etc.

Transparencies and "Briefing Boards";



H = Height of chart

W = Width of chart

h = height of smallest letter

t = thickness of line composing a letter

Technifax standards (recommended 2:3 aspect ratio)

$$H = \frac{2}{3} W$$

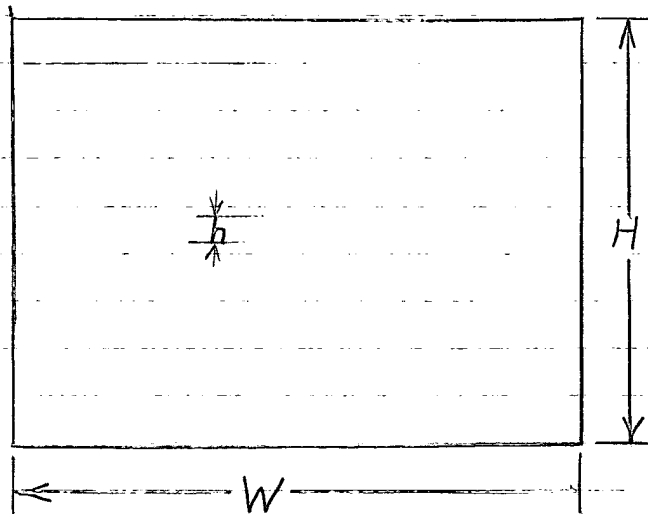
$$h = \frac{1}{30} H$$

$$t = 0.15 h = 0.005 H$$

$$h = \frac{1}{30} \cdot \frac{2}{3} W = \frac{1}{45} W$$

$$t = 0.005 H = 0.005 \cdot \frac{2}{3} W = 0.003 W$$

Our standards (?) based on 8" x 10" films, aperture aspect ratio of $\frac{7\frac{1}{2}'' \times 9\frac{1}{2}''}{7\frac{5}{8}'' \times 9\frac{3}{8}''}$ or $15:19$ or approximately $\frac{3:4}{4:5}$



H = Height of chart

W = Width of chart

h = height of smallest letter

t = thickness of line composing a letter

$$H = \frac{3}{4} W$$

$$h = \frac{1}{30} H$$

$$t = 0.15 h = 0.005 H$$

$$h = \frac{1}{30} \cdot \frac{3}{4} W = \frac{1}{40} W$$

$$t = 0.005 H = 0.005 \cdot \frac{3}{4} W = 0.00375 W$$

$\frac{1}{64}'' = 0.015625''$

Chart Dimensions

Letter & Line Dimensions

Width

Height

h

t

19"

15"

$\frac{1}{2}''$

0.075" ($\frac{3}{64}''$)

9 $\frac{1}{2}''$

7 $\frac{1}{2}''$

$\frac{1}{4}''$

0.0325" ($\frac{1}{32}''$)

no 16 Nov 64

BRIEFING BOARDS

Board Sizes

Horizontal format: 22" high by 30" wide (use whenever possible)
Vertical format: 30" high by 22" wide
Double format: 30" high by 44" wide

Board Materials

Bainbridge, Studio Bristol, medium surface, 3 ply
Crescent Illustration, #300, coldpress surface, medium weight
Sho-card board or equivalent

Type Style and Sizes

Style - Futura Semi-Bold
Title - 60 pt
Subtitle - 48 pt
Annotations - 42-18 pt (as necessary)

VIEWGRAPHS

Viewgraph Frame

Size - 10 1/4" high by 14 3/4" wide (major axis always horizontal)

Image Area

Size - 7 5/8" high by 9 3/8" wide

Type Style and Sizes

Style - Alternate Gothic No. 1 (Condensed)
Title - 30 pt
Subtitle - 24 pt
Annotations or other copy - 18-14 pt

TELEPROMPTER SLIDES

Glass Mount

Size - 3 1/4" high by 4" wide (major axis always horizontal)

Image Area

Size - 2 5/8" high by 3 1/2" wide

Type Style and Sizes

Style - Alternate Gothic No. 1 (Condensed)
*Title - 30 pt
*Subtitle - 24 pt
*Annotations or other copy - 18-14 pt

* Based upon preparation of art work at proportionate image area size of 7 7/16" high by 9 7/8" wide.

25X1

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Approved For Release 2004/11/30 : CIA-RDP78B04770A000800010005-9

Briefing Aids

Tentative Schedule

Months

14 Oct

RDP
29 Oct 64

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

PAR	#	EAs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
202	2	Briefing Print Enlarger	o																							
203	2	Rapid Access Printer	o																							
206	3	Rev. Proc. of High-Resolution Film Study																								
207	2	Definitive Study of Contact Printers		o																						
211	3	Microdensitometer Study of Effects of Processing		o																						
212	2	Color Acq. System Review Study		o																						
213	5	Color Repro. Systems Review			o																					
214	3	Roller Transport Reversal Processor (12-Inch)		o																						
215	3	Roller Transport Reversal Processor (24-Inch)			o																					
216	2	Exposure of Photographic Mat'l with Lasers	o																							
217	2	Optimization of Lasers		o																						
222	2	Stereo Registration System	o																							
224	2	3 - 15X Fluid Gate Enlarger		o																						

NOTE:

1. Delivery of boards and slides approximately 15 days after completion.
2. Number of boards and schedule may change due to updating reflecting PAR progress.

KEY: o = Completion

213

WEDNESDAY

1964 DECEMBER 1964						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

2

DEC. 1964

666

12/2/64

337

WED., DECEMBER 2, 1964

29

COLOR REPROD REVIEW
HIGH ALT ACQ OF 14 AUG 1964
REPROD SERIES

ORIGINAL COLOR MATERIAL TYPE 50-121

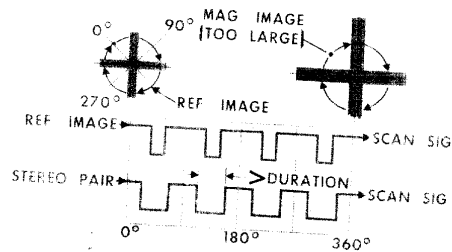
WHITE LIGHT PRINTING

DUPL NEG TYPE 4400

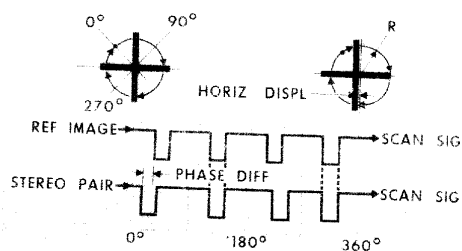
MERCURY ARC PRINTING

DUPL POS TYPE 8430

AUTO STEREO REGSTRN. SYSTEM
MAGNIFICATION DIFF



AUTO STEREO REGSTRN. SYSTEM
HORIZONTAL DISPLACEMENT



337 12/2/64 WED, DECEMBER 2, 1964 29

222

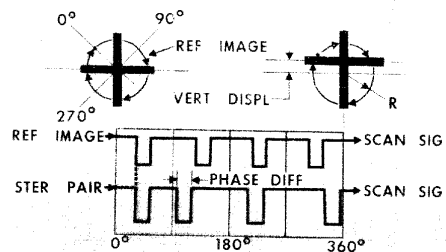
DEC. 1964

2

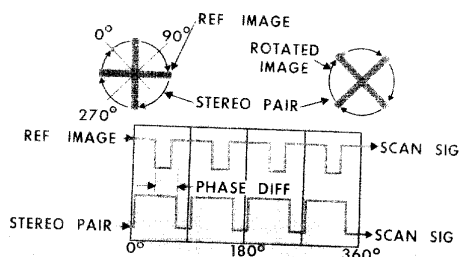
1964 DECEMBER 1964						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

WEDNESDAY

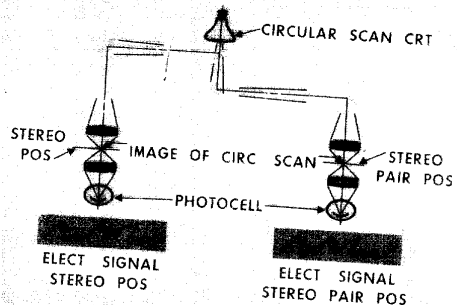
AUTO STEREO REGISTR. SYSTEM VERTICAL DISPLACEMENT



AUTO STEREO REGISTR. SYSTEM ROTATION-SCAN SIGNAL RELATIONSHIP



AUTO STEREO REGISTR. SYSTEM BREADBOARD SCHEMATIC



217

NOV. 1964

29

29	30
22	23
24	25
26	27
28	15
16	17
18	19
20	21
8	9
10	11
12	13
14	1
2	3
4	5
6	7
S	M
T	W
T	F
F	S
1964 NOVEMBER 1964	

SUNDAY

346 FRI, DECEMBER 11, 1964 20
12/11/64

215

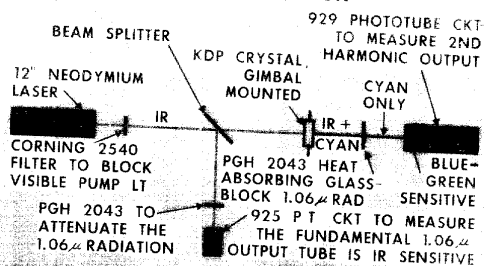
DEC. 1964

11

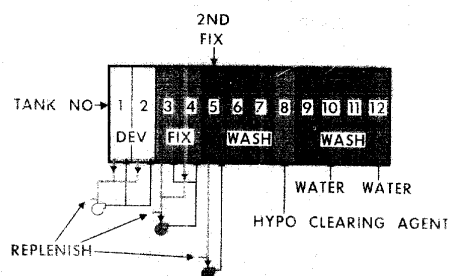
27	28	29	30	31
20	21	22	23	24
25	26	13	14	15
16	17	18	19	6
7	8	9	10	11
12	1	2	3	4
5	S	M	T	W
F	S			
1964 DECEMBER 1964				

FRIDAY

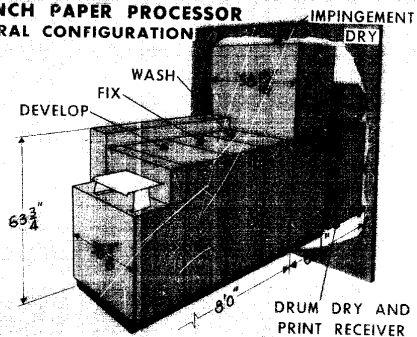
CYAN LASER **SCHEMATIC DIAGRAM OF SYSTEM** **FOR SECOND HARMONIC GENERATION** **OF 0.53 MICRON LASER RADIATION**



24 INCH PAPER PROCESSOR **PROCESS**



24 INCH PAPER PROCESSOR **GENERAL CONFIGURATION**



SUNDAY

1964 DECEMBER 1964						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

13

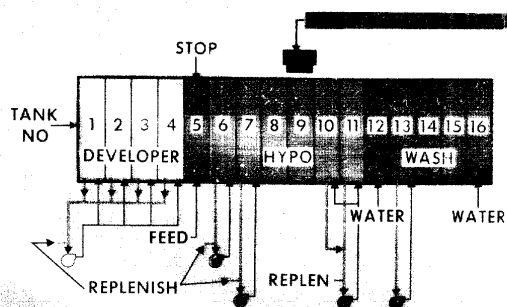
DEC. 1964

214

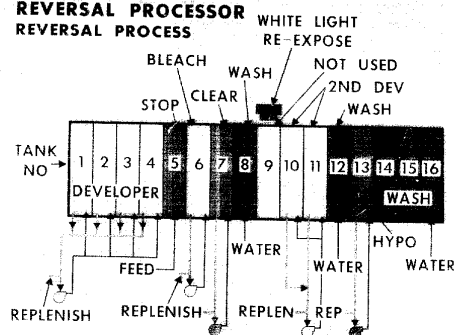
12/13/64

348 SUN., DECEMBER 13, 1964 18

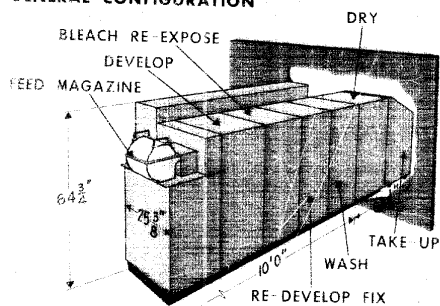
REVERSAL PROCESSOR NEGATIVE PROCESS



REVERSAL PROCESSOR REVERSAL PROCESS



REVERSAL PROCESSOR GENERAL CONFIGURATION



344
WED, DECEMBER 9, 1964
12/9/64
22

212

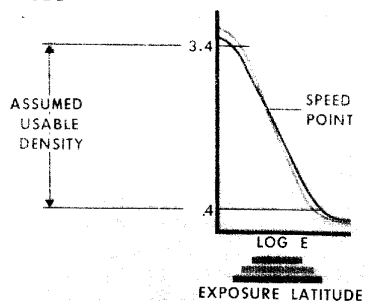
DEC. 1964

9

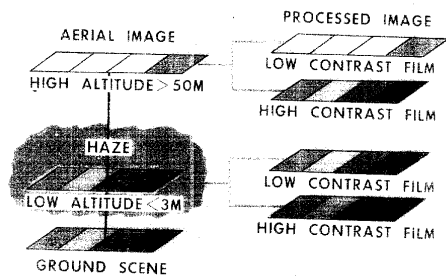
1964	DECEMBER	1964
S	M	T
W	T	F
S		
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31		

WEDNESDAY

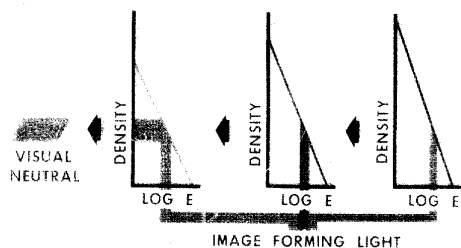
COLOR ACQ. SYSTEM REVIEW FILM LATITUDE



COLOR ACQ. SYSTEM REVIEW ACQUISITION ALTITUDE AND FILM SELECTION



COLOR ACQ. SYSTEM REVIEW FILM RESPONSE



212

1964	DECEMBER	1964
S	M	T
W	T	F
S		
1	2	3
4	5	
6	7	8
9	10	11
12		
13	14	15
16	17	18
19	20	21
22	23	24
25	26	
27	28	29
30	31	

WEDNESDAY

9

DEC. 1964

12/8/64

TUES., DECEMBER 8, 1964

343

23

211

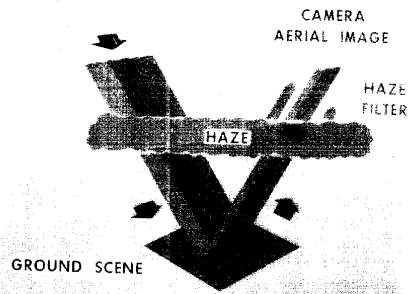
1964	DECEMBER	1964
S	M	T
W	T	F
S		
1	2	3
4	5	
6	7	8
9	10	11
12		
13	14	15
16	17	18
19	20	21
22	23	24
25	26	
27	28	29
30	31	

TUESDAY

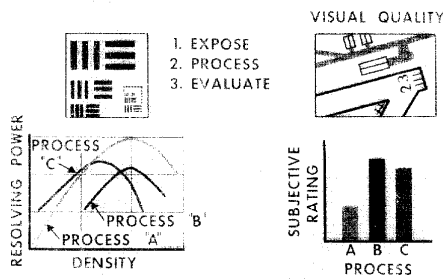
8

DEC. 1964

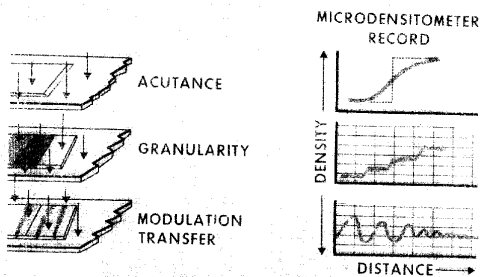
COLOR ACQ. SYSTEM REVIEW HAZE ATTENUATION



PROCESSING EFFECTS STUDY RESOLVING POWER



PROCESSING EFFECTS STUDY EXPOSURE TECHNIQUE



343 12/8/64 TUES., DECEMBER 8, 1964 23

211

DEC. 1964

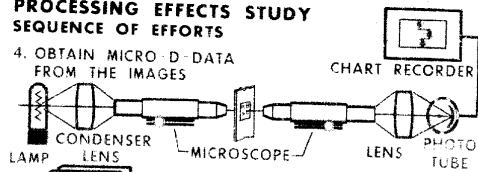
8

1964	DECEMBER	1964
S	M	T
W	T	F
S		
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31		

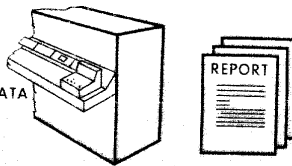
TUESDAY

**PROCESSING EFFECTS STUDY
SEQUENCE OF EFFORTS**

4. OBTAIN MICRO-D DATA
FROM THE IMAGES

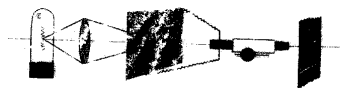


5. EVALUATE DATA



**PROCESSING EFFECTS STUDY
SEQUENCE OF EFFORTS**

SELECT THE FILM



2. EXPOSE FILM TO VARIOUS
TEST OBJECTS

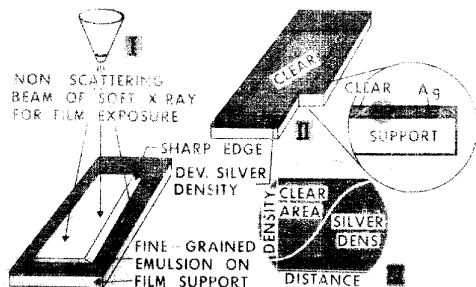
3. PROCESS FILM USING SPECIAL
TECHNIQUES AND DEVELOPERS



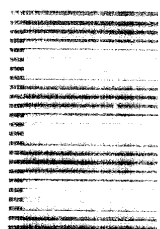
207

1000800010005-9

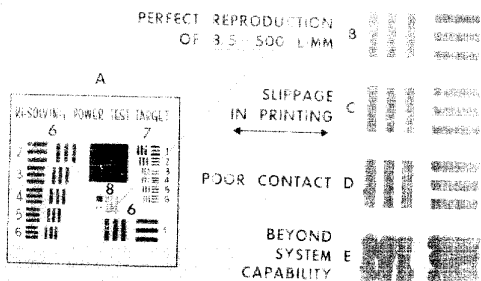
CONTACT PRINTER STUDY SHARP EDGE REPRODUCTION TEST



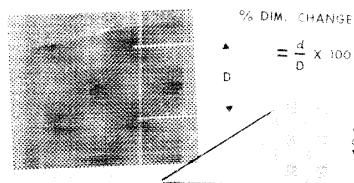
CONTACT PRINTER STUDY MOIRÉ PATTERNS



CONTACT PRINTER STUDY RESOLUTION



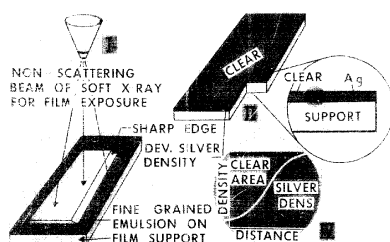
CONTACT PRINTER STUDY MEASUREMENT SUPERIMPOSED HALFTONES



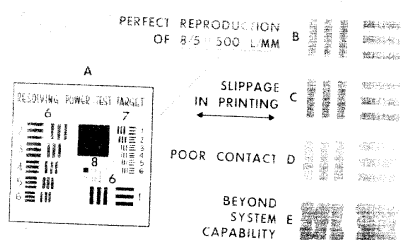
CONTACT PRINTER STUDY MOIRÉ PATTERNS



CONTACT PRINTER STUDY SHARP EDGE REPRODUCTION TEST



CONTACT PRINTER STUDY RESOLUTION



WEDNESDAY

1966		MARCH							1966		
S	M	T	W	T	F	S					
		1	2	3	4	5					
6	7	8	9	10	11	12					
13	14	15	16	17	18	19					
20	21	22	23	24	25	26					
27	28	29	30	31							

23

MAR. 1966

PAR-206

3/23/66

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WED., MARCH 23, 1966

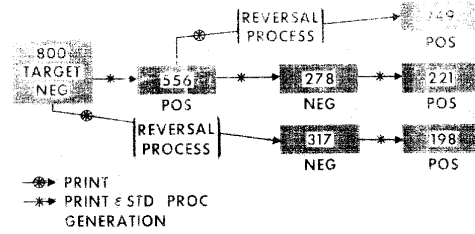
283

REVERSAL PROCESSING STUDY

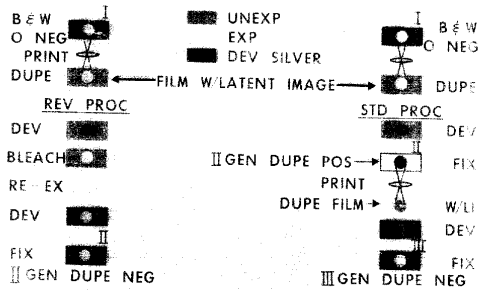
TEST RESULTS OCT 64

TYPE 8430 FILM

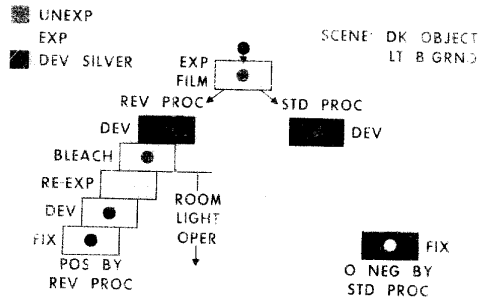
ALL VALUES LINES/MM



REVERSAL PROCESSING STUDY DUPE NEG: REV VS STD PROC

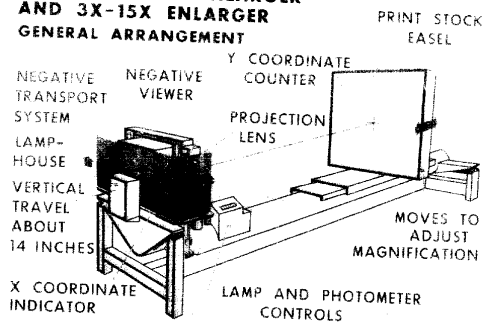


REVERSAL PROCESSING STUDY REV PROC VS STD NEG PROC

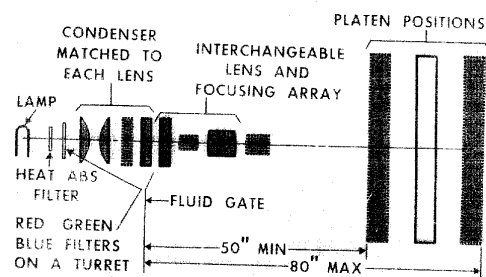


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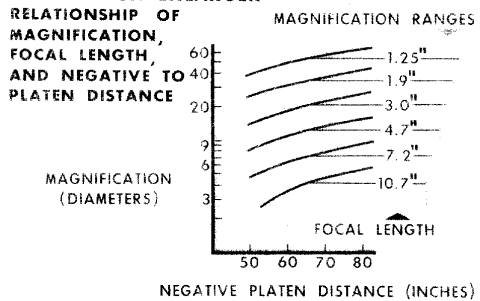
BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER GENERAL ARRANGEMENT



BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER OPTICAL SCHEMATIC

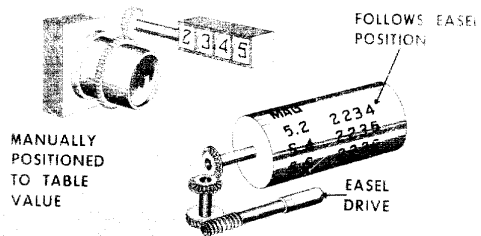


BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER RELATIONSHIP OF MAGNIFICATION, FOCAL LENGTH, AND NEGATIVE TO PLATEN DISTANCE



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BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER FOCUS ADJUSTMENT



BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER FIELD COVERAGE (PREDICTED)

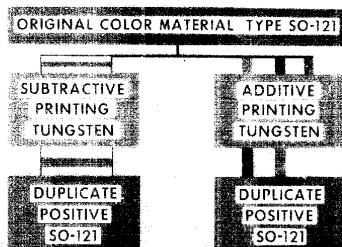
	MAGNIFICATION		FIELD COVERAGE			
			NEGATIVE		DIAM AT PLATEN	
	MIN	MAX	DIAM	SQUARE	MIN	MAX
1.	2.5X	5.3X	4.0"	2.83"	10.0"	21.2"
2.	4.75	9.0	4.0	2.83	19.0	36.0
3.	8.55	15.0	3.8	2.68	32.5	57.0
4.	14.5	24.7	2.18	1.53	31.6	53.8
5.	24.2	40.2	1.29	0.905	31.2	51.8
6.	38.0	62.5	.82	0.578	31.2	51.2

BRIEFING PRINT ENLARGER AND 3X-15X ENLARGER SHEET SIZES AND THEIR DIAGONAL LGTH.

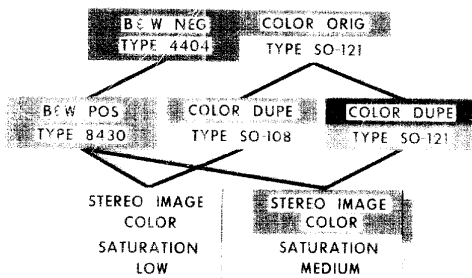
SHEET	DIAG	SHEET	DIAG
8" X 10"	12.8"	16" X 20"	25.6"
10" X 12"	15.6"	20" X 24"	31.2"
11" X 14"	17.7"	30" X 40"	50.0"
14" X 17"	22.0"	40" X 40"	56.5"

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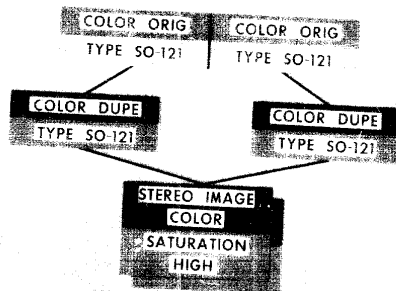
COLOR REPROD REVIEW
HIGH ALT ACQ OF 14 AUG 1964
REPROD SERIES



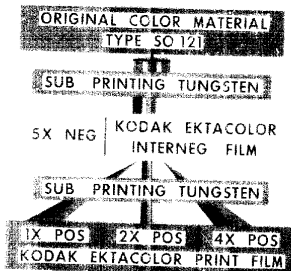
COLOR REPROD REVIEW
COLOR STEREO SYSTEM



COLOR REPROD. REVIEW
COLOR STEREO SYSTEM



COLOR REPROD. REVIEW
HIGH ALT. ACQ OF 14 AUG. 1964
REPROD. SERIES



**COLOR REPROD REVIEW
ENLARGING SYSTEMS**

C CONTACT
X ENLGM T

COLOR ORIG
TYPE SO 121

DUPE TYPE SO 108 C	DUPE TYPE SO 121 C	DUPE TYPE SO 271 5X
INTERNEG TYPE 5270 C	INTERNEG TYPE 5270 C	INTERNEG TYPE 5270 6110 5X
PRINT TYPE 6109 5X	PRINT TYPE 6109 5X	PRINT TYPE 6109 5X

**COLOR REPROD REVIEW
HIGH ALT ACQ OF 14 AUG 1964
REPROD SERIES**

ORIGINAL COLOR MATERIAL TYPE SO 121

COLOR SEP PRINT'G COLOR SEP PRINT'G

DUPL NEG DUPL POS
TYPE 4400 SO 121

MERCURY ARC
PRINTING

DUPL POS TYPE 8430

**COLOR REPROD REVIEW
COLOR PRINTING**

